



SEQUENCE LISTING

<110> Astellas Pharma Inc.

<120> Protein Which Binds To Akt2

<130> Q88255

<140> 10/537,767

<141> 2005-06-06

<150> PCT/JP03/15546

<151> 2003-12-04

<150> JP 2002-354155

<151> 2002-12-05

<150> JP 2003-206952

<151> 2003-08-08

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<170> PatentIn version 3.3

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<212> DNA

<213> Mus sp.

<220>

<221> CDS

<222> (1)...(1719)

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Met Ala Ala Val Pro Pro Leu Arg Asp Arg Leu Ser Phe Leu His Arg
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48

ctc ccc atc ctg ttg aag ggg acc tca gat gat agc atc cca tgt cca
Leu Pro Ile Leu Leu Lys Gly Thr Ser Asp Asp Ser Ile Pro Cys Pro
20 25 30

96

ggc tac ctg ttt gaa gag atc gcc aag att tcc cac gag tca cta ggc
Gly Tyr Leu Phe Glu Glu Ile Ala Lys Ile Ser His Glu Ser Leu Gly
35 40 45

144

agc agc cag tgc ctg gag tac ctc ctg aac cgt ctg gac agc agc
Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Asn Arg Leu Asp Ser Ser
50 55 60

192

tcc ggc cac gtg aag ctc aag gtg cta aag atc ttg ctt tac ctg tgt
Ser Gly His Val Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys
65 70 75 80

240

ggt cat ggc tct tcc tcc ttc ctc atc ctc agg aga aac tct gct

288

Gly His Gly Ser Ser Ser Phe Leu Leu Ile Leu Arg Arg Asn Ser Ala			
85	90	95	
ctc atc caa gaa gcc acg gct ttc tca ggg cct cca gat cct ctt cac			336
Leu Ile Gln Glu Ala Thr Ala Phe Ser Gly Pro Pro Asp Pro Leu His			
100	105	110	
gga aat agc ttg tac cag aag gtg cgg gcg gct gcc cag gac ctg ggt			384
Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Gln Asp Leu Gly			
115	120	125	
agc acc ctg ttc tca gat gcc gtg cca cag cct cca tcg cag cca cct			432
Ser Thr Leu Phe Ser Asp Ala Val Pro Gln Pro Pro Ser Gln Pro Pro			
130	135	140	
cag atc ccg cct ccc gca ggc atg ggc gcc cag gcc aga cct ctt agt			480
Gln Ile Pro Pro Pro Ala Gly Met Gly Ala Gln Ala Arg Pro Leu Ser			
145	150	155	160
gcc ctg caa ggc ttc ggc tac acg aag gag agc agc cgg aca ggc tcc			528
Ala Leu Gln Gly Phe Gly Tyr Thr Lys Glu Ser Ser Arg Thr Gly Ser			
165	170	175	
gca ggt gaa acc ttc ctc tcc acc atc cag agg gcc gca gag gta gtg			576
Ala Gly Glu Thr Phe Leu Ser Thr Ile Gln Arg Ala Ala Glu Val Val			
180	185	190	
gct aat gct gtg cgt cct gga cct gat aat cct tgt acc aag gga ccc			624
Ala Asn Ala Val Arg Pro Gly Pro Asp Asn Pro Cys Thr Lys Gly Pro			
195	200	205	
ttg ccg tat ggt gat tcc tac cag cct gca gtg aca cct tca gct agc			672
Leu Pro Tyr Gly Asp Ser Tyr Gln Pro Ala Val Thr Pro Ser Ala Ser			
210	215	220	
cac aca cat ccc aac cct ggg aat cta ctc cct ggg gcc atc ctg ggg			720
His Thr His Pro Asn Pro Gly Asn Leu Leu Pro Gly Ala Ile Leu Gly			
225	230	235	240
gcc aga gct gtg aga cac cag ccc ggg cag gct ggg ggc ggc tgg gat			768
Ala Arg Ala Val Arg His Gln Pro Gly Gln Ala Gly Gly Trp Asp			
245	250	255	
gag ctg gac agc agt cct agt tcc cag aat tcc tcc tgc acc agc aac			816
Glu Leu Asp Ser Ser Pro Ser Ser Gln Asn Ser Ser Cys Thr Ser Asn			
260	265	270	
ctg agc agg gcc tcg gac tcg ggc agt cgg tct ggc agt gac agc cac			864
Leu Ser Arg Ala Ser Asp Ser Gly Ser Arg Ser Gly Ser Asp Ser His			
275	280	285	
tct ggc acc agc cgg gag cca ggc gac ctg gca gaa agg gct gag gcc			912
Ser Gly Thr Ser Arg Glu Pro Gly Asp Leu Ala Glu Arg Ala Glu Ala			
290	295	300	
acg ccc cca aat gac tgc cag caa gaa ctg aat cta gtg agg act gtg			960

Thr Pro Pro Asn Asp Cys Gln Gln Glu Leu Asn Leu Val Arg Thr Val			
305	310	315	320
aca cag ggg cca cgt gtc ttc ctg agc cgt gag gag acg cag cac ttc			1008
Thr Gln Gly Pro Arg Val Phe Leu Ser Arg Glu Glu Thr Gln His Phe			
325	330	335	
atc aaa gag tgt ggc ctg ctc aac tgt gag gca gtg ctg gag ctg ctc			1056
Ile Lys Glu Cys Gly Leu Leu Asn Cys Glu Ala Val Leu Glu Leu Leu			
340	345	350	
ctg cgc cag ctg gtc ggg acc agt gag tgc gag cag atg agg gcg ctg			1104
Leu Arg Gln Leu Val Gly Thr Ser Glu Cys Glu Gln Met Arg Ala Leu			
355	360	365	
tgt gcc atc gcg tcc ttt ggg agt gct gac ctc ctg cct cag gag cac			1152
Cys Ala Ile Ala Ser Phe Gly Ser Ala Asp Leu Leu Pro Gln Glu His			
370	375	380	
gtc ctc ctc ctg tgc cga cag cag ctg cag gaa ctt ggc gcg ggc agc			1200
Val Leu Leu Leu Cys Arg Gln Gln Leu Gln Glu Leu Gly Ala Gly Ser			
385	390	395	400
cct gga cct gtg acc aac aaa gcc acc aag atc ctg aga cat ttt gaa			1248
Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe Glu			
405	410	415	
gcc tcc tgt gga caa cag ctc cct acc cta agg ctc tgt gcc cag ccc			1296
Ala Ser Cys Gly Gln Gln Leu Pro Thr Leu Arg Leu Cys Ala Gln Pro			
420	425	430	
aac tct gca gct gcc cct gtg ggc cca gct gac ctg ctg acc acc ccc			1344
Asn Ser Ala Ala Ala Pro Val Gly Pro Ala Asp Leu Leu Thr Ser Pro			
435	440	445	
gtg cct gcc cct ggg agc cag gtc tgc ctc cag cct ctc agc tcc gcc			1392
Val Pro Ala Pro Gly Ser Gln Val Cys Leu Gln Pro Leu Ser Ser Ala			
450	455	460	
aca gtg gta ccc agg agt cct gtg ctc ttt cca tcc ccc aat acc tta			1440
Thr Val Val Pro Arg Ser Pro Val Leu Phe Pro Ser Pro Asn Thr Leu			
465	470	475	480
cct ccg tct gct ctg gag gag ccc agc gag gtc cga acc caa ttg gtg			1488
Pro Pro Ser Ala Leu Glu Glu Pro Ser Glu Val Arg Thr Gln Leu Val			
485	490	495	
tgt tct agt gaa cag ggg aca gaa tct gag cag agg ctg gag aac aca			1536
Cys Ser Ser Glu Gln Gly Thr Glu Ser Glu Gln Arg Leu Glu Asn Thr			
500	505	510	
gac acc cca gag gat agc tcc agt ccg ctc ccg tgg agt ccc aac tct			1584
Asp Thr Pro Glu Asp Ser Ser Pro Leu Pro Trp Ser Pro Asn Ser			
515	520	525	
ttg ttt gct ggc atg gag ctg gtg gct tgc ccc cgc ctg cct tgc cac			1632

Leu	Phe	Ala	Gly	Met	Glu	Leu	Val	Ala	Cys	Pro	Arg	Leu	Pro	Cys	His	
530																540
agc	tcg	cag	gac	ctc	cag	aca	gat	tta	cag	aag	gtg	acc	aca	gaa	gct	1680
Ser	Ser	Gln	Asp	Leu	Gln	Thr	Asp	Leu	Gln	Lys	Val	Thr	Thr	Glu	Ala	
545																560
ccg	gtt	tca	gag	cca	tca	gct	ttt	gca	ttt	tta	aac	atg	tga			1722
Pro	Val	Ser	Glu	Pro	Ser	Ala	Phe	Ala	Phe	Leu	Asn	Met				
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35																45
Ser	Ser	Gln	Cys	Leu	Leu	Glu	Tyr	Leu	Leu	Asn	Arg	Leu	Asp	Ser	Ser	
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Ser	Gly	His	Val	Lys	Leu	Lys	Val	Leu	Lys	Ile	Leu	Leu	Tyr	Leu	Cys	
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Gly	His	Gly	Ser	Ser	Ser	Phe	Leu	Leu	Ile	Leu	Arg	Arg	Asn	Ser	Ala	
85																95
Leu	Ile	Gln	Glu	Ala	Thr	Ala	Phe	Ser	Gly	Pro	Pro	Asp	Pro	Leu	His	
100																110
Gly	Asn	Ser	Leu	Tyr	Gln	Lys	Val	Arg	Ala	Ala	Ala	Gln	Asp	Leu	Gly	
115																125
Ser	Thr	Leu	Phe	Ser	Asp	Ala	Val	Pro	Gln	Pro	Pro	Ser	Gln	Pro	Pro	
130																140
Gln	Ile	Pro	Pro	Pro	Ala	Gly	Met	Gly	Ala	Gln	Ala	Arg	Pro	Leu	Ser	

145

150

155

160

Ala Leu Gln Gly Phe Gly Tyr Thr Lys Glu Ser Ser Arg Thr Gly Ser
165 170 175

Ala Gly Glu Thr Phe Leu Ser Thr Ile Gln Arg Ala Ala Glu Val Val
180 185 190

Ala Asn Ala Val Arg Pro Gly Pro Asp Asn Pro Cys Thr Lys Gly Pro
195 200 205

Leu Pro Tyr Gly Asp Ser Tyr Gln Pro Ala Val Thr Pro Ser Ala Ser
210 215 220

His Thr His Pro Asn Pro Gly Asn Leu Leu Pro Gly Ala Ile Leu Gly
225 230 235 240

Ala Arg Ala Val Arg His Gln Pro Gly Gln Ala Gly Gly Trp Asp
245 250 255

Glu Leu Asp Ser Ser Pro Ser Ser Gln Asn Ser Ser Cys Thr Ser Asn
260 265 270

Leu Ser Arg Ala Ser Asp Ser Gly Ser Arg Ser Gly Ser Asp Ser His
275 280 285

Ser Gly Thr Ser Arg Glu Pro Gly Asp Leu Ala Glu Arg Ala Glu Ala
290 295 300

Thr Pro Pro Asn Asp Cys Gln Gln Glu Leu Asn Leu Val Arg Thr Val
305 310 315 320

Thr Gln Gly Pro Arg Val Phe Leu Ser Arg Glu Glu Thr Gln His Phe
325 330 335

Ile Lys Glu Cys Gly Leu Leu Asn Cys Glu Ala Val Leu Glu Leu Leu
340 345 350

Leu Arg Gln Leu Val Gly Thr Ser Glu Cys Glu Gln Met Arg Ala Leu
355 360 365

Cys Ala Ile Ala Ser Phe Gly Ser Ala Asp Leu Leu Pro Gln Glu His

370

375

380

Val Leu Leu Leu Cys Arg Gln Gln Leu Gln Glu Leu Gly Ala Gly Ser
385 390 395 400

Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe Glu
405 410 415

Ala Ser Cys Gly Gln Gln Leu Pro Thr Leu Arg Leu Cys Ala Gln Pro
420 425 430

Asn Ser Ala Ala Ala Pro Val Gly Pro Ala Asp Leu Leu Thr Ser Pro
435 440 445

Val Pro Ala Pro Gly Ser Gln Val Cys Leu Gln Pro Leu Ser Ser Ala
450 455 460

Thr Val Val Pro Arg Ser Pro Val Leu Phe Pro Ser Pro Asn Thr Leu
465 470 475 480

Pro Pro Ser Ala Leu Glu Glu Pro Ser Glu Val Arg Thr Gln Leu Val
485 490 495

Cys Ser Ser Glu Gln Gly Thr Glu Ser Glu Gln Arg Leu Glu Asn Thr
500 505 510

Asp Thr Pro Glu Asp Ser Ser Pro Leu Pro Trp Ser Pro Asn Ser
515 520 525

Leu Phe Ala Gly Met Glu Leu Val Ala Cys Pro Arg Leu Pro Cys His
530 535 540

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545 550 555 560

Pro Val Ser Glu Pro Ser Ala Phe Ala Phe Leu Asn Met
565 570

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ctc ccg att ctc ctg aag ggg acg tcc gat gat gtc ccg tgt ccg 96
Leu Pro Ile Leu Leu Lys Gly Thr Ser Asp Asp Asp Val Pro Cys Pro
20 25 30
ggc tac ctg ttt gaa gag att gct aaa atc tcc cac gag tct ccg ggc 144
Gly Tyr Leu Phe Glu Glu Ile Ala Lys Ile Ser His Glu Ser Pro Gly
35 40 45
agc agc cag tgc ctg ctg gag tac ctc ctg agc cgc ctg cac agc agc 192
Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Ser Arg Leu His Ser Ser
50 55 60
tcc ggc cac ggg aag ctc aag gtg ctg aag atc ctg ctc tat ctg tgc 240
Ser Gly His Gly Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys
65 70 75 80
agc cac ggc tcc tcc ttc ctg ctc atc ctc aaa cgc aac tct gcc 288
Ser His Gly Ser Ser Phe Phe Leu Leu Ile Leu Lys Arg Asn Ser Ala
85 90 95
ttc atc cag gaa gct gca gct ttt gca ggg ccc cca gat cct ctg cac 336
Phe Ile Gln Glu Ala Ala Ala Phe Ala Gly Pro Pro Asp Pro Leu His
100 105 110
ggg aac agc ttg tac cag aag gtt cgc gcg gcc gcg cag gac ttg ggg 384
Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Gln Asp Leu Gly
115 120 125
agc acc ctg ttc tcg gac acc gtg ttg ccg ctg gct ccc tcc cag cct 432
Ser Thr Leu Phe Ser Asp Thr Val Leu Pro Leu Ala Pro Ser Gln Pro
130 135 140
ctg ggg acc ccg cct gcc aca ggc atg ggc tcc cag gcc agg ccg cac 480
Leu Gly Thr Pro Pro Ala Thr Gly Met Gly Ser Gln Ala Arg Pro His
145 150 155 160
agc acc ctc cag ggt ttc ggc tac agc aag gaa cac ggc cgc acg ggc 528
Ser Thr Leu Gln Gly Phe Gly Tyr Ser Lys Glu His Gly Arg Thr Gly
165 170 175
tcg gca ggc gaa gcc ttc ctc tcc acc atc cag aag gcc gca gag gtg 576
Ser Ala Gly Glu Ala Phe Leu Ser Thr Ile Gln Lys Ala Ala Glu Val
180 185 190
gtg gcc agc gcc atg cgc ccc ggg ccc gag agt ccc agt acc cg^g agg 624
Val Ala Ser Ala Met Arg Pro Gly Pro Glu Ser Pro Ser Thr Arg Arg

195	200	205			
ctc ctg ccg cgg ggt gac acc tac cag cct gcc atg atg cct tca gcc Leu Leu Pro Arg Gly Asp Thr Tyr Gln Pro Ala Met Met Pro Ser Ala	210	215	220	672	
agc cac ggt ccc cca acc ctg ggg aac cta ctc ccc ggg gcc att cca Ser His Gly Pro Pro Thr Leu Gly Asn Leu Leu Pro Gly Ala Ile Pro	225	230	235	240	720
ggt ccc cga gct gtg agg cat cag cct ggg cag gcc gga ggg ggc tgg Gly Pro Arg Ala Val Arg His Gln Pro Gly Gln Ala Gly Gly Trp	245	250	255	768	
gat gag ctg gac agc ggc ccc agc tct cag aat tcc tcc cag aac agc Asp Glu Leu Asp Ser Gly Pro Ser Gln Asn Ser Ser Gln Asn Ser	260	265	270	816	
gac ctg agc agg gtc tcg gac tcg ggc agt cat tcc ggc agc gac agc Asp Leu Ser Arg Val Ser Asp Ser Gly Ser His Ser Gly Ser Asp Ser	275	280	285	864	
cat tca ggg gcc agc cgg gag ccg ggt gac ctg gca gaa agg gtc gag His Ser Gly Ala Ser Arg Glu Pro Gly Asp Leu Ala Glu Arg Val Glu	290	295	300	912	
gtg gtg gcc ctg agt gac tgt cag cag gag ttg agc ttg gtg agg act Val Val Ala Leu Ser Asp Cys Gln Gln Glu Leu Ser Leu Val Arg Thr	305	310	315	320	960
gtg act cgg gga cca cgc gcc ttc ctg agc cgc gag gag gca cag cac Val Thr Arg Gly Pro Arg Ala Phe Leu Ser Arg Glu Glu Ala Gln His	325	330	335	1008	
tcc atc aaa gcg tgt gga ctg ctc aac tgt gag gcc gtg ctg cag ctg Phe Ile Lys Ala Cys Gly Leu Leu Asn Cys Glu Ala Val Leu Gln Leu	340	345	350	1056	
ctg acc tgc cac ctg cgt ggg acc agt gaa tgc acg cag ctg agg gcg Leu Thr Cys His Leu Arg Gly Thr Ser Glu Cys Thr Gln Leu Arg Ala	355	360	365	1104	
ctg tgt gcc atc gcc tcc ctg ggg agc agc gac ctc ctc ccc cag gag Leu Cys Ala Ile Ala Ser Leu Gly Ser Ser Asp Leu Leu Pro Gln Glu	370	375	380	1152	
cac atc ctc ctc cgc acc cgg ccg tgg ctg cag gag ctc agc atg ggc His Ile Leu Leu Arg Thr Arg Pro Trp Leu Gln Glu Leu Ser Met Gly	385	390	395	400	1200
agc ccg gga cct gtg acc aac aag gcc acc aag atc ctg agg cac ttt Ser Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe	405	410	415	1248	
gag gcc tcc tgt ggg cag ctg tcc cct gcc ccg ggc acc tca gct gag Glu Ala Ser Cys Gly Gln Leu Ser Pro Ala Arg Gly Thr Ser Ala Glu				1296	

420	425	430	
cct ggc ccc aca gcc gcc ctc cca ggc cca tct gac ctg ctg acc gac Pro Gly Pro Thr Ala Ala Leu Pro Gly Pro Ser Asp Leu Leu Thr Asp 435	440	445	1344
gct gtg cct ctc cct ggg agc cag gtc ttc ctg cag cct ctg agt tca Ala Val Pro Leu Pro Gly Ser Gln Val Phe Leu Gln Pro Leu Ser Ser 450	455	460	1392
acc ccg gtc tcg tcc cg ^g agc cct gct ccc tca tct ggg atg ccg tcc Thr Pro Val Ser Ser Arg Ser Pro Ala Pro Ser Ser Gly Met Pro Ser 465	470	475	1440
agc cct gtg ccc acc cca ccc cca gat gcc tcc ccc att cca gcc ccc Ser Pro Val Pro Thr Pro Pro Asp Ala Ser Pro Ile Pro Ala Pro 485	490	495	1488
gga gac ccc agc gag gcc gag gcc aga ctg gca gaa agc agg cg ^g tgg Gly Asp Pro Ser Glu Ala Glu Ala Arg Leu Ala Glu Ser Arg Arg Trp 500	505	510	1536
aga cct gaa cg ^g atc ccg ggg ggc acg gac agc cca aag aga ggc ccc Arg Pro Glu Arg Ile Pro Gly Gly Thr Asp Ser Pro Lys Arg Gly Pro 515	520	525	1584
agc agc tgt gcg tgg agc cgc gac tcc ttg ttt gct ggc atg gag ctg Ser Ser Cys Ala Trp Ser Arg Asp Ser Leu Phe Ala Gly Met Glu Leu 530	535	540	1632
gtg gcc tgt ccc cgc ctg gtg ggg gct ggg gct gct gcg gga gag tcc Val Ala Cys Pro Arg Leu Val Gly Ala Gly Ala Ala Gly Glu Ser 545	550	555	1680
tgt cct gat gct ccc cgc gcc ccc caa aca tcg tcc cag agg aca gca Cys Pro Asp Ala Pro Arg Ala Pro Gln Thr Ser Ser Gln Arg Thr Ala 565	570	575	1728
gcc aaa gag cct ggc tca gag ccg tca gct ttc gcg ttc ctg aac Ala Lys Glu Pro Pro Gly Ser Glu Pro Ser Ala Phe Ala Phe Leu Asn 580	585	590	1776
gcc tga Ala			1782

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<211> 593
<212> PRT
<213> Homo sapiens

<400> 4

Met Ala Ala Ala Pro Pro Leu Arg Asp Arg Leu Ser Phe Leu His Arg
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Leu Pro Ile Leu Leu Lys Gly Thr Ser Asp Asp Asp Val Pro Cys Pro
20 25 30

Gly Tyr Leu Phe Glu Glu Ile Ala Lys Ile Ser His Glu Ser Pro Gly
35 40 45

Ser Ser Gln Cys Leu Leu Glu Tyr Leu Leu Ser Arg Leu His Ser Ser
50 55 60

Ser Gly His Gly Lys Leu Lys Val Leu Lys Ile Leu Leu Tyr Leu Cys
65 70 75 80

Ser His Gly Ser Ser Phe Phe Leu Leu Ile Leu Lys Arg Asn Ser Ala
85 90 95

Phe Ile Gln Glu Ala Ala Ala Phe Ala Gly Pro Pro Asp Pro Leu His
100 105 110

Gly Asn Ser Leu Tyr Gln Lys Val Arg Ala Ala Ala Gln Asp Leu Gly
115 120 125

Ser Thr Leu Phe Ser Asp Thr Val Leu Pro Leu Ala Pro Ser Gln Pro
130 135 140

Leu Gly Thr Pro Pro Ala Thr Gly Met Gly Ser Gln Ala Arg Pro His
145 150 155 160

Ser Thr Leu Gln Gly Phe Gly Tyr Ser Lys Glu His Gly Arg Thr Gly
165 170 175

Ser Ala Gly Glu Ala Phe Leu Ser Thr Ile Gln Lys Ala Ala Glu Val
180 185 190

Val Ala Ser Ala Met Arg Pro Gly Pro Glu Ser Pro Ser Thr Arg Arg
195 200 205

Leu Leu Pro Arg Gly Asp Thr Tyr Gln Pro Ala Met Met Pro Ser Ala
210 215 220

Ser His Gly Pro Pro Thr Leu Gly Asn Leu Leu Pro Gly Ala Ile Pro
225 230 235 240

Gly Pro Arg Ala Val Arg His Gln Pro Gly Gln Ala Gly Gly Gly Trp
245 250 255

Asp Glu Leu Asp Ser Gly Pro Ser Ser Gln Asn Ser Ser Gln Asn Ser
260 265 270

Asp Leu Ser Arg Val Ser Asp Ser Gly Ser His Ser Gly Ser Asp Ser
275 280 285

His Ser Gly Ala Ser Arg Glu Pro Gly Asp Leu Ala Glu Arg Val Glu
290 295 300

Val Val Ala Leu Ser Asp Cys Gln Gln Glu Leu Ser Leu Val Arg Thr
305 310 315 320

Val Thr Arg Gly Pro Arg Ala Phe Leu Ser Arg Glu Glu Ala Gln His
325 330 335

Phe Ile Lys Ala Cys Gly Leu Leu Asn Cys Glu Ala Val Leu Gln Leu
340 345 350

Leu Thr Cys His Leu Arg Gly Thr Ser Glu Cys Thr Gln Leu Arg Ala
355 360 365

Leu Cys Ala Ile Ala Ser Leu Gly Ser Ser Asp Leu Leu Pro Gln Glu
370 375 380

His Ile Leu Leu Arg Thr Arg Pro Trp Leu Gln Glu Leu Ser Met Gly
385 390 395 400

Ser Pro Gly Pro Val Thr Asn Lys Ala Thr Lys Ile Leu Arg His Phe
405 410 415

Glu Ala Ser Cys Gly Gln Leu Ser Pro Ala Arg Gly Thr Ser Ala Glu
420 425 430

Pro Gly Pro Thr Ala Ala Leu Pro Gly Pro Ser Asp Leu Leu Thr Asp
435 440 445

Ala Val Pro Leu Pro Gly Ser Gln Val Phe Leu Gln Pro Leu Ser Ser
450 455 460

Thr Pro Val Ser Ser Arg Ser Pro Ala Pro Ser Ser Gly Met Pro Ser
465 470 475 480

Ser Pro Val Pro Thr Pro Pro Pro Asp Ala Ser Pro Ile Pro Ala Pro
485 490 495

Gly Asp Pro Ser Glu Ala Glu Ala Arg Leu Ala Glu Ser Arg Arg Trp
500 505 510

Arg Pro Glu Arg Ile Pro Gly Gly Thr Asp Ser Pro Lys Arg Gly Pro
515 520 525

Ser Ser Cys Ala Trp Ser Arg Asp Ser Leu Phe Ala Gly Met Glu Leu
530 535 540

Val Ala Cys Pro Arg Leu Val Gly Ala Gly Ala Ala Gly Glu Ser
545 550 555 560

Cys Pro Asp Ala Pro Arg Ala Pro Gln Thr Ser Ser Gln Arg Thr Ala
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Ala Lys Glu Pro Pro Gly Ser Glu Pro Ser Ala Phe Ala Phe Leu Asn
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27

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61

<210> 8

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22

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24

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